



2910 Harvard Avenue, P.O. Box 09087, Cleveland, OH 44109, 216/441-4900

FEBRUARY 13, 1990

DOUGLAS AIRCRAFT
2900 E. COVER RD GATE 5
BUILDING 10
LONG BEACH, CA 90808

ATTENTION: MSDS ADMINISTRATOR

DEAR SIR/MADAM:

ENCLOSED ARE MATERIAL SAFETY DATA SHEET(S) (MSDS) WHICH PROVIDE INFORMATION ON THE PRODUCT(S) LISTED BELOW WHICH YOU HAVE RECENTLY PURCHASED. THE MATERIAL SAFETY DATA SHEET(S) HAVE EITHER BEEN REVISED SINCE YOU LAST RECEIVED THEM OR ARE FOR NEW PRODUCT(S) WHICH YOU HAVE RECENTLY PURCHASED.

SINCE YOU MAY REDIRECT THE PRODUCT(S) TO MORE THAN ONE PLACE WITHIN YOUR LOCATION, PLEASE MAKE SURE THAT YOUR DISTRIBUTION OF THE MSDS(S) IS MADE IN COMPLIANCE WITH FEDERAL AND LOCAL RULES AND REGULATIONS. THE SHEET(S) ARE PROVIDED IN COMPLIANCE WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200. ALL HAZARDOUS INGREDIENTS GREATER THAN 1% AND ALL CARCINOGENS GREATER THAN 0.1% BY WEIGHT ARE LISTED SHOWING CHEMICAL NAME AND TLV AS SPECIFIED IN THE CURRENT OSHA REGULATIONS, 1910.1000 THROUGH 1046.

GLENN T. CARNINE
TSCA COORDINATOR
216-441-4900 EXT. 5616

PRODUCT NUMBER	DESCRIPTION	REVISION DATE	STATUS
47130	CHROMIC ACID CRYSTAL LABELED	01/01/90	REVISED MSDS

REF. #2404020-01 4415616

BOE-C6-0226787



1250 Terminal Tower, Cleveland, Ohio 44113, 216/621-6425

MATERIAL SAFETY DATA SHEET

Product Name: CHROMIC ACID		Emergency Phone No.: 216/441-1900
Plant Address: 2910 Harvard Avenue Cleveland, OH 44109		Chemtec Phone No. 800/424-9300
Prepared By: TSCA Coordinator	Issue Date: 4/77	Revised Date: 4th 4/88

INGREDIENTS AND HAZARDOUS COMPONENTS

Material	%	TLV	C.A.S. #	Subst. Carcinogen
Chromium Trioxide SARA 313 Chemical	100	0.1	1333-82-0	YES
		mg/m ³		

PHYSICAL DATA

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Boiling Point: NA	Freezing Point: NA	Specific Gravity: 2.7	pH: NA
Vapor Pressure at 20° C: NA	Vapor Density (Air = 1): NA	% Volatiles by Volume: NA	Odor: None
Evaporation Rate (Butyl Acetate = 1) NA		Solubility in Water: 63 g/100 g H ₂ O @ 20°C	
Appearance and Form: Dark red flakes or powder			

FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA	Flammable Limits in Air:
Test Method: NA	% By Volume Upper: NA Lower:
Extinguishing Media: NA	
Special Fire Fighting Procedures:	Self-contained breathing apparatus should be worn in areas where chromic acid is stored.
Unusual Fire and Explosion Hazards:	Powerful oxidizing agent. May react with oxidizable substances rapidly enough to ignite them.
DOT Classification: Oxidizer, Corrosive NA-1463	Note: UK = Unknown NA = Not Applicable

Effects of Overexposure and Primary Entries to Body:

Primary entry through skin and inhalation of dust.

Acute: Burns to skin and eyes. Ulcers on skin. Ingestion damages liver and kidneys.

Chronic: Ulceration of mucous membranes of nose and mouth, "Nasal Holes".

Emergency and First Aid Procedures: Flush skin and eyes with water for at least 15 minutes. Get medical attention. If inhaled, irrigate nasal passages and mouth with water. If swallowed and conscious, give water or milk if available. Do not induce vomiting. Gastric lavage under medical direction is recommended followed by oral (1 gram or more) or intravenous ascorbic acid treatment.

REACTIVITY DATA

☒ Stable☐ Unstable

Conditions to Avoid:

Incompatibility — Materials to Avoid: Any combustible organic or other readily oxidizable materials such as paper, wood, sulfur, aluminum, etc.

Hazardous Decomposition Products: None known.

Hazardous Polymerization:

☐ May Occur☒ Will Not Occur

SPILL OR LEAK PROCEDURES

Spills: Collect spilled material in the most convenient and safe manner for reclamation or disposal. Treat residue with a reducing agent such as sodium sulfite. Neutralize with soda ash or lime. Absorb and place in suitable containers for proper disposal.

Waste Disposal Methods:

Reduce to Cr^{+3} with sodium sulfite or ferrous sulfate.
Precipitate Cr^{+3} in solution by neutralizing to pH 7.5 with soda ash or lime.
Reclaim or dispose of precipitate in an EPA approved landfill.

Follow all Local, State and Federal regulations.

SPECIAL PROTECTION INFORMATION

Respirator: Use only NIOSH/MSHA approved respirators following manufacturer's recommendations where dust, mists, fumes or vapors may be generated.

Ventilation: Sufficient to keep below TLV limits.

Gloves: Rubber

Eye and Face: Chemical goggles and face shield

Other: Rubber boots, sleeves, hard hat, etc., to prevent clothing and skin contact.

Handling and Storage:

Store in a clean, cool, dry, well-ventilated area.
Keep away from oxidizable materials.
Avoid dusting and skin and eye contact.
Change clothing daily.

THIS PRODUCT SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION.

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